PDR RID Report

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Document PDR			**Priority** 2

Section Real-time Scenario   **Page** RT-153   **Figure Table** NA

Category Name Design   **Actionee** HAIS

Sub Category

Subject COP across TDRSS sessions

Description of Problem or Suggestion:

Your presentation leads one to believe command execution verification is keyed off of command receipt verification. If commands are transmitted to the spacecraft near the end of a TDRSS session, commands may be executed by the spacecraft although their receipt is not verified by the FOS. My concern is that the commands may be inappropriately transmitted again at the beginning of the next TDRSS session.

Originator's Recommendation

Provide a design which addresses the COP process and how it will handle command transmissions across TDRSS sessions.

GSFC Response by: **GSFC Response Date**

HAIS Response by: D. Herring   **HAIS Schedule**   1/20/95

HAIS R. E.   D. Dunn   **HAIS Response Date**   1/20/95

The FOS will not automatically retransmit commands from a prior contact. In the current design for the command software, information regarding commands from a prior contact is not maintained.

Note, however, that the FOT is informed of the status of all commands, during a real time contact. Operationally, the FOT will be aware of circumstances when commands sent at the tail end of the previous contact were not uplink verified. As such, the FOT should be prepared to take whatever action (e.g. manual retransmission) is required once the true status of these outstanding commands is revealed at the beginning of the next pass. Also note that spacecraft state checking may aid the FOT in this decision process.

Status   **Closed**   **Date Closed** **2/1/95**   **Sponsor**   **Johns**

****** Attachment if any ******